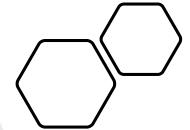


Are you prepared?



- Gear and Resource Advisor Kit –READY?

 -Where are you going and what do you need?
- In Park or out of park assignment may dictate what you need.
- Contacts and list of phone numbers of Resource professionals from that unit

What kind of assignment did you accept?





Oil Spill R.E.A.D. anyone?









Safety

- Inform Division of your plan for the day at morning breakout
 - Make sure that you are in the IAP
 - Make sure Division knows how to contact you
 - Know what radio channels your division is operating on
- Check-in and check out with Divisions
 - When you enter or leave a division
 - Include your general location for the day
- Get phone numbers-Lead READ and other READS
- Let nearby fire personnel know you're working in their area
- Wear Personal Protective Equipment (PPE)















Suppression repair- ongoing incident





In the South, this equipment is called ?









HANDLINES

General Description: Rehabilitation of suppression constructed "Handlines" is necessary to avoid erosion that would result in gullies and to restore natural landscape surface water flows.

Location (Suitable) Sites: See incident map for location of known handlines. Additional lines should be rehabilitated as they are discovered in the field. All discoveries will be subsequently mapped.

Design/Construction Specifications:

- . Use hand tools or chainsaws only on handlines, not dozers or excavators.
- Trenching (if any) should be filled in and the hand line restored to blend with the undisturbed soil contours. Berms, topsoil, and organic matter should be pulled back onto the hand line. Green trees/branches, dead limbs and cut downed logs are to be re-scattered onto the hand line to obliterate evidence of the line as much as practical
- . Waterbars should be skewed horizontally from the fall line of the slope (not the hand line) approximately 15 to 20 degrees from horizontal and drained away from the fire burned area if possible.
- Utilize natural rolls and dips whenever possible

Trail/Fireline Gradient

Scatter branches, wood, rock, sod, pine, needles or other material to naturalize the fire line and further retard mineral soil movement. Scattered material should be randomly placed along the hand line. Strive for 65% to 85% ground cover on areas treated with scattered material to prevent mineral soil movement/channeling of the hand line. nd scatter rocks or limbs to naturalize in the instance in the What spending the base of the

Spacing of Water Bare

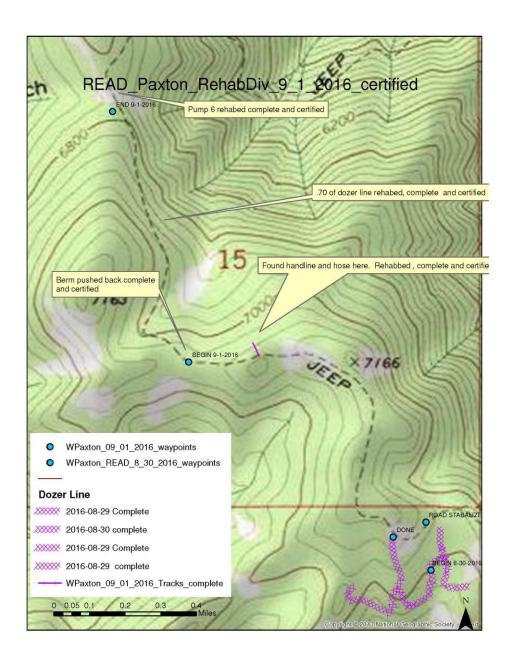
suppre

	Trail/Fireline Gradient	Spacing of v	Spacing of Water Bars			
	ssinr	Formability of S	Soil on Tireline	r	n	lan?
) (Less than 15%	200'	150'			
	15% to 30%	100'	75'			
	30% to 45%	65'	50'			
	Steeper than 45%	30'	25'			
	*Water Bars shall be put in by hand (no bulldozers on handlines)					

*These are minimum standards and are not intended to restrict the implementation of more water bars if the need is justified and approved in this plan.



Collector? Showing completion of work.





....Margo Schwadron





- Introduce "All Hazard" READ incidents.
- Share "Lessons Learned" on our agencies preparedness and response to all hazard incidents.
- Encourage broadened thinking about READ roles in all hazard incidents.
- Foster interagency coordination and partnerships that will protect both cultural and natural resources in future all hazard incidents, which leads to GOOD READs.





- Weather Disasters (hurricanes, tornados, typhoons, nor'easters, droughts, floods, ice storms, etc.)
- Geological Disasters (earthquakes, tsunamis, volcanoes, mudslides, avalanches, sinkholes, etc.)
- Biological Disasters (pine needle infestation, etc.)
- Man-Made Disasters (oil spills, plane crashes, terrorism, etc.)

All Hazard READ Examples:

- Deepwater Horizon (oil spill)
- Hurricane Sandy (hurricane)







Deepwater Horizon: Complex All Hazard Incident

- Multi Jurisdiction
- Multi Agency
- Complex Command Structure (Unified Area Command)
- Complex Time Structure
- Multi Phase: Pre Response, Response, Clean Up, Restoration













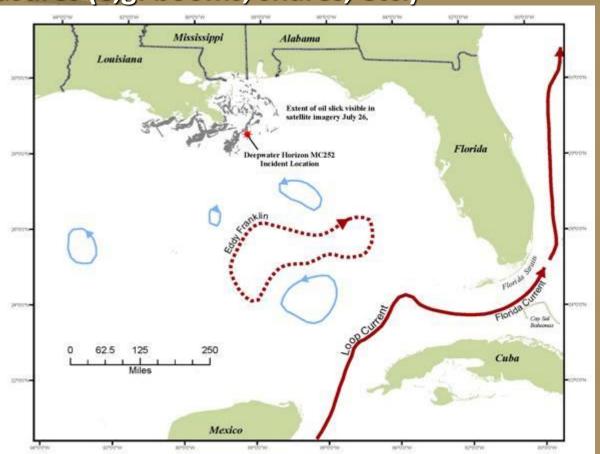
EARLY OR PRE-RESPONSE



- Document existing conditions and establish baselines
- Predict flow and spread of oil
- Predict potential oiled sites
- Consider protection measures (e,g. booms, snares, etc.)

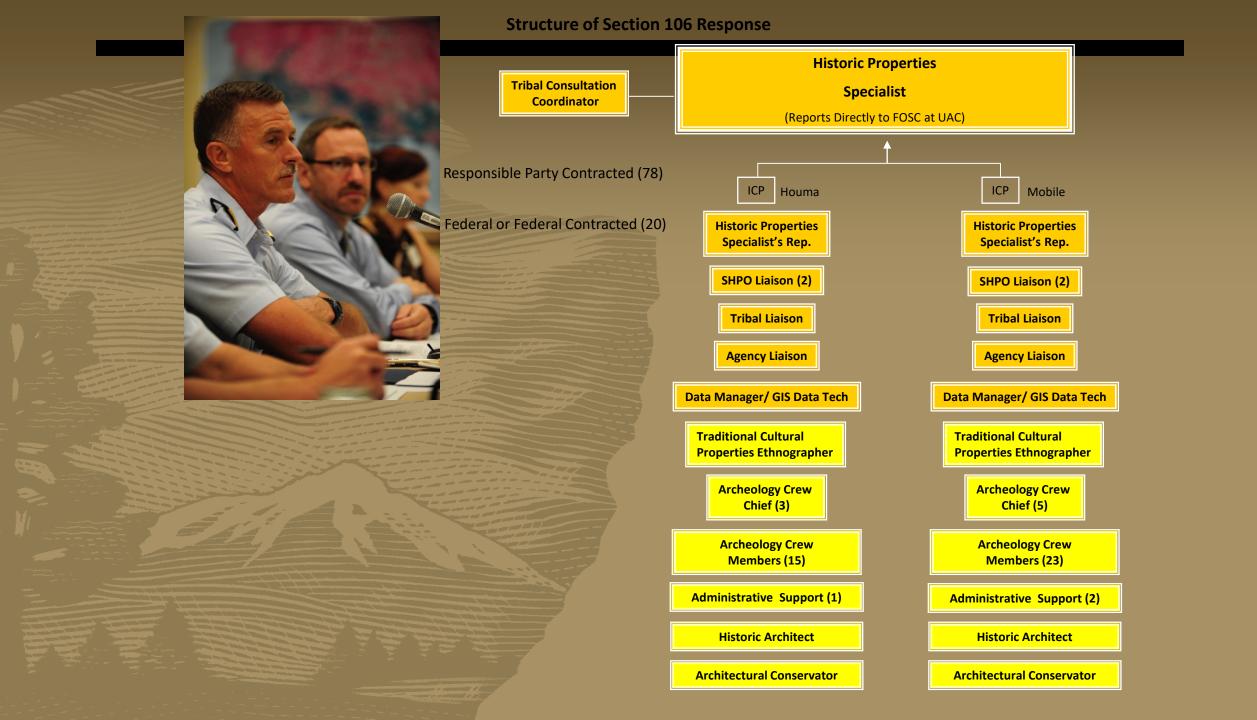


- Produce BMPs
- Establish protocols



Phase III: Unified Area Command





CR Federal Laws and Mandates

- Abandoned Shipwreck Act, 1987, (P.L. 100-298)
- American Indian Religious Freedom Act, 1978 (P.L. 95-341)
- Antiquities Act of 1906 (P.L. 59-209)
- Archaeological Resources Protection Act, 1979 (P.L. 96-95)
- Archeological Recovery Act, 1960 (P.L. 86-523, Reservoir Salvage Act)
- Archeological and Historic Preservation Act, 1974, Section 110 as amended
- Architectural Barriers Act, 1968, as amended
- Department of Transportation Act, 1966 (P.L. 89-670)
- Federal Highway Act, 1956 (P.L. 91-605)
- Federal Land Policy and Management Act, 1976
- Federal Property and Administrative Services Act of 1949, as amended
- Federal Records Act of 1950, as amended
- Historic Sites Act, 1935 (P.L. 74-292)
- Mining in the National Parks Act of 1976 (P.L. 94-429)
- Museum Act, 1955
- National Historic Preservation Act, 1966 (P.L. 89-665)
- National Park Service Organic Act, 1916 (P.L. 74-235)
- National Park System Resource Protection Act
- Native American Graves Protection and Repatriation Act, 1990 (P.L. 101-60l)
- The National Environmental Policy Act of 1969, as amended
- Reservoir Salvage Act of 1960

Impacts to Cultural Resources



Impacts to Cultural Resources



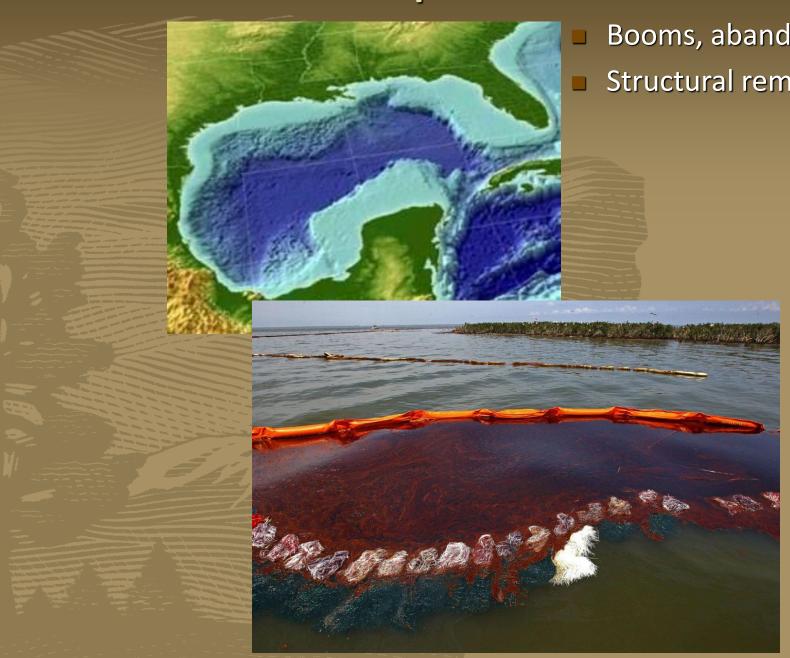
Impacts to Cultural Resources



Impacts to Cultural Resources



Other Impacts to Cultural Resources



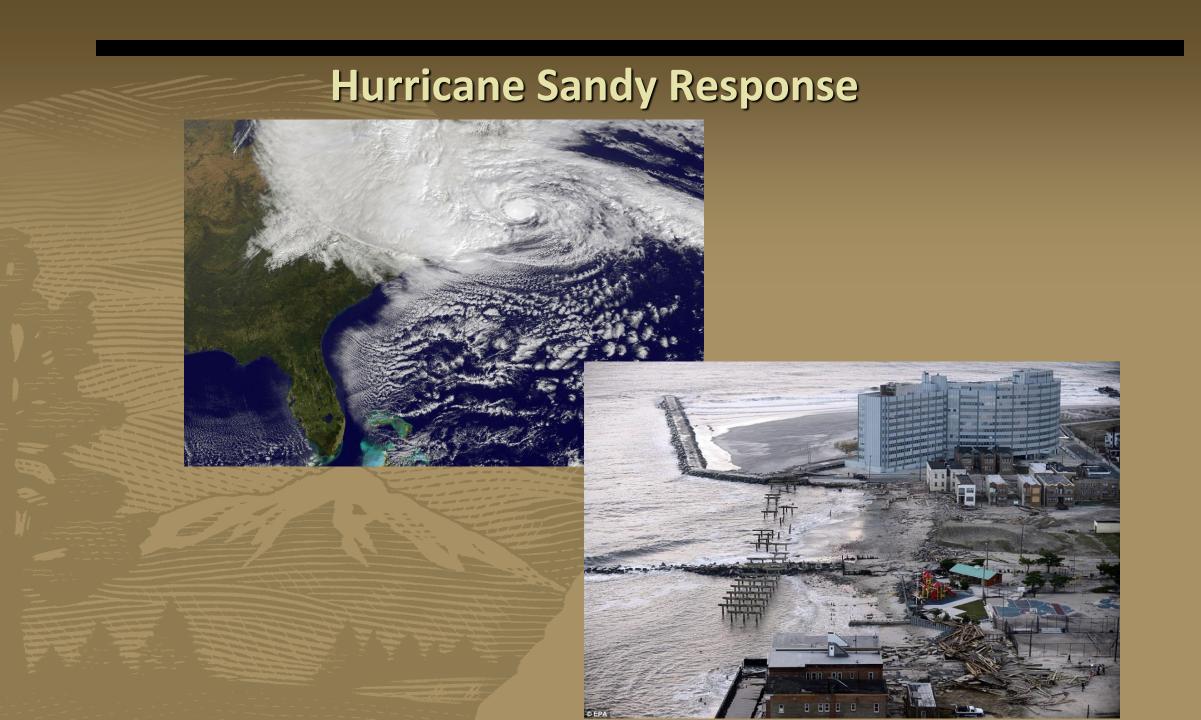


Structural remains, artifacts





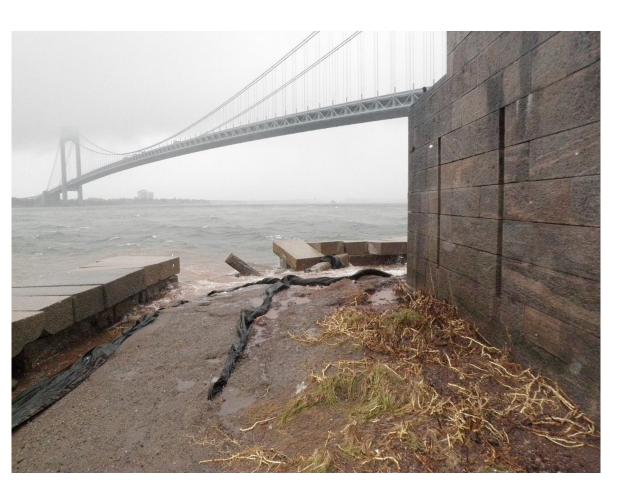




Hurricane Sandy













Saint Paul's Church National Historic Site 1700s-1900s

4 Damaged Gravestones, Fallen Trees











Saint Paul's Church

- 70 ft Treefall
- 7 GravestonesThreatened
- Difficult Logistics for Removal
- Requested SpecializedResources



Saint Paul's Church National Historic Site 1700s-1900s Remove trees without damaging headstones







Arborists and READ team

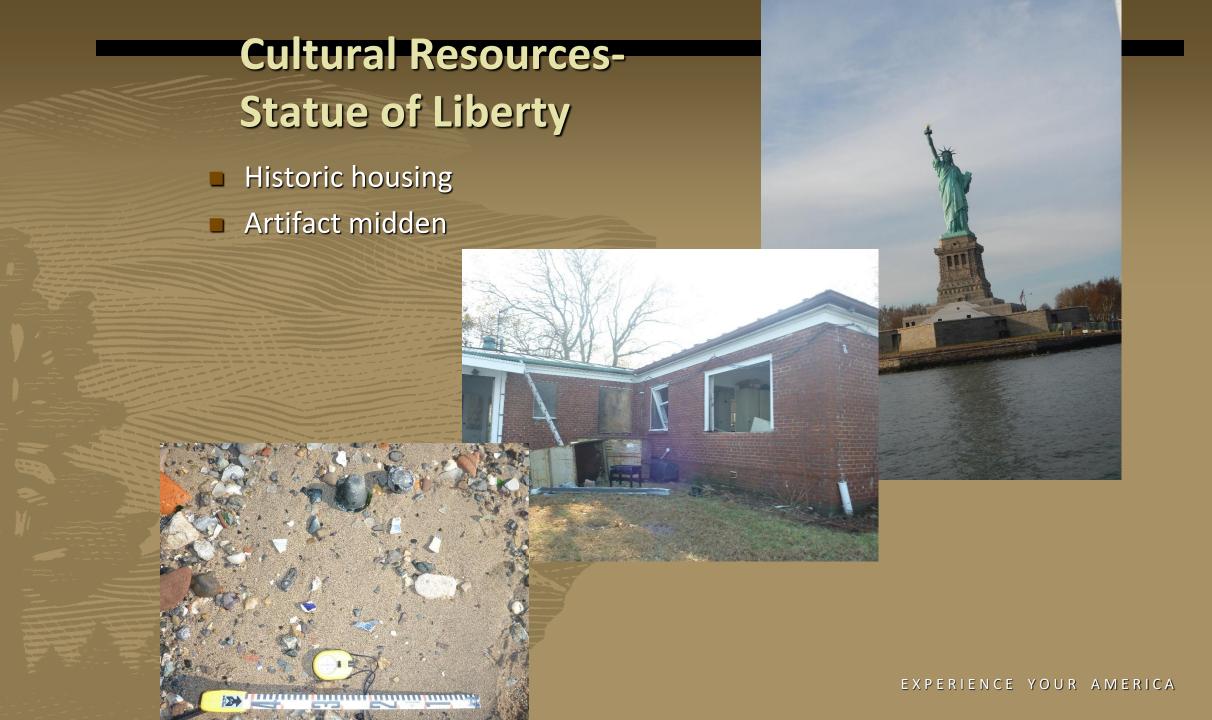


Saint Paul's Church

- Tree Safely Removed
- No Gravestones Damaged







Cultural Resources – Ellis Island





Ellis Island

- Tree falls
- Structural damage
- Exposed artifacts





Ellis Island

Submerged artifacts curated





Ellis Island

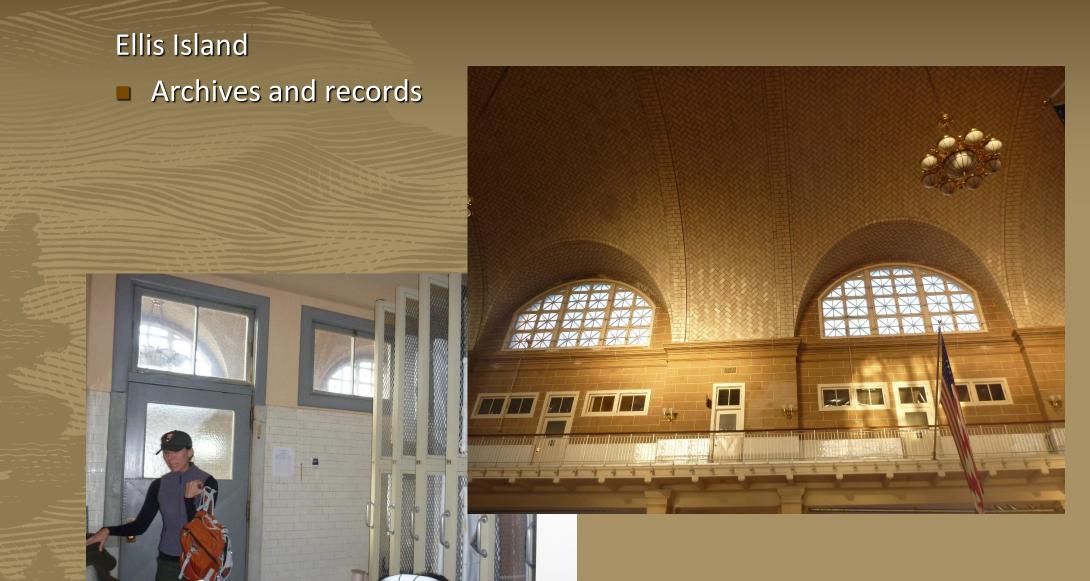
Museum storage











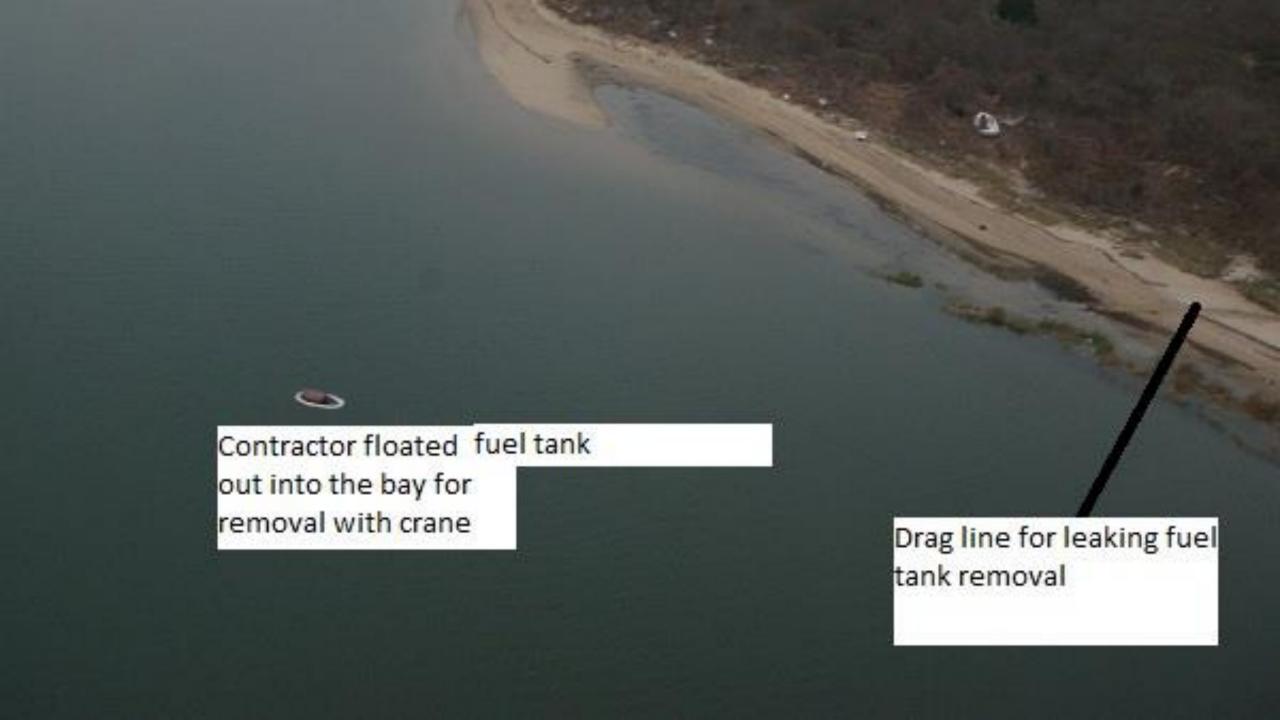


Ellis Island

Archives and records





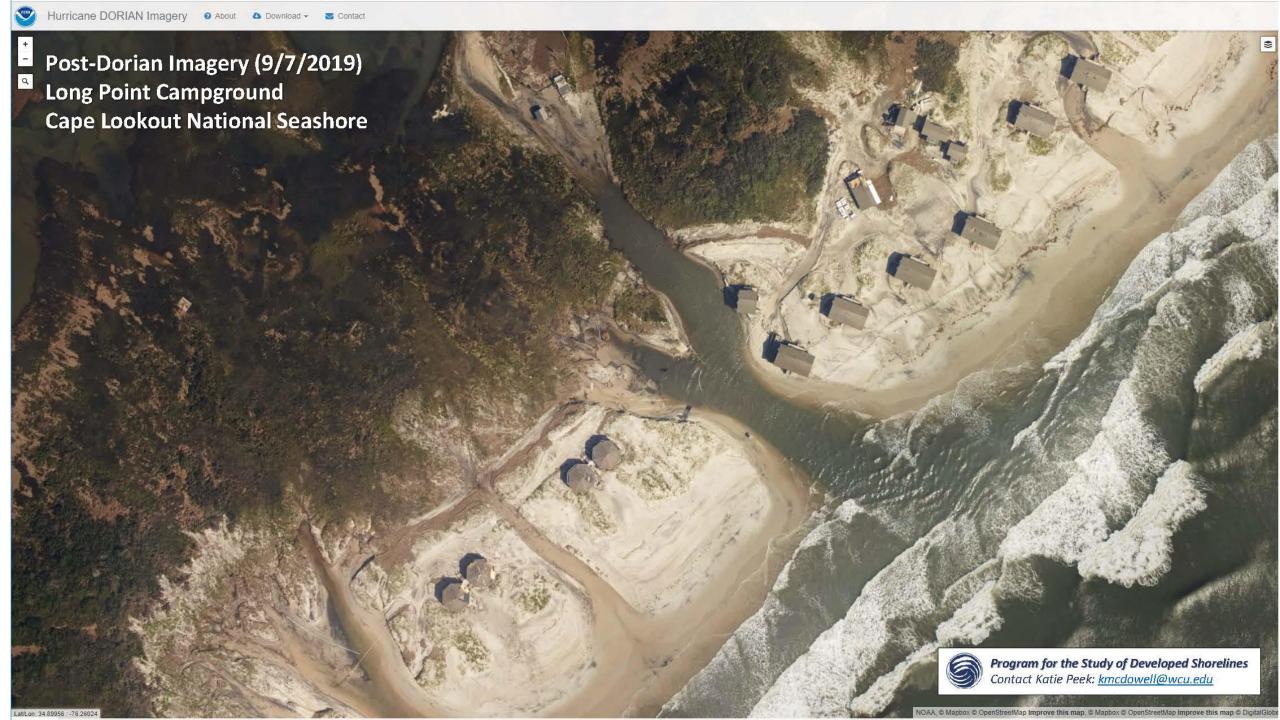
















Build Relationships

Show and Tell is great

Speak in breakouts

- Balance friendly and professional attitude
- Provide positive and constructive feedback





